

ABSTRACT OF THE DISCLOSURE

A radio terminal unit and a radio communication system, enabling power savings, the improvement of the quality of real-time communication such as voice communication, and the reduction of transmission delays which often occur when a plurality of radio terminal units are connected to one radio base station. An operation mode determination section determines whether real-time processing is necessary or unnecessary based on parameters of all active communication applications set by a communication application section.

5 When real-time processing is necessary, a communication control section transmits a PS-Poll as a control packet for requesting delivery of packets to a radio base station, and turns on the power of a radio interface section so as to receive packets buffered by the radio base station. When real-time processing is unnecessary, the communication control section turns

10 off the power of the radio interface section, and carries out intermittent receiving operation based on beacons transmitted from the radio base station.

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